

CLAIMS

1. (Currently Amended) One or more computer-readable storage media ~~A processor-readable medium~~ comprising processor-executable instructions configured for:

receiving an instruction specifying additional per-frame DV metadata to extract from a DV data stream;

extracting the metadata from a DV frame of the DV data stream in response to the instruction; and

wherein the extracting comprises:

determining a DVPackID from an extraction list; and

identifying the metadata within the DV frame based on the DVPackID.

2. (Currently Amended) The one or more computer-readable storage media ~~A processor-readable medium~~ as recited in claim 1, further ~~further~~ comprising ~~further~~ processor-executable instructions configured for:

storing the metadata in a container; and

attaching the container to a video sample of the DV frame.

3. (Currently Amended) The one or more computer-readable storage media A
~~processor-readable medium~~ as recited in claim 1, wherein the receiving an instruction
comprises:

receiving an AddPack call to add the DVPackID to an extraction list;

receiving a RemovePack call to remove the DVPackID from the extraction list;

and

receiving a RemoveAllPacks call to remove all DVPackIDs from the extraction
list.

4. (Currently Amended) The one or more computer-readable storage media A
~~processor-readable medium~~ as recited in claim 3, further comprising ~~further~~ processor-
executable instructions configured for:

returning a number indicating an amount of DVPackIDs present in the
extraction list in response to a GetCount call; and

returning a DVPackID at an index in the extraction list in response to a
GetPackID call that specifies the index.

5. (Canceled)

6. (Currently Amended) The one or more computer-readable storage media A
~~processor-readable medium~~ as recited in claim 2, further comprising ~~further~~ processor-
executable instructions configured for managing the container.

7. (Currently Amended) The one or more computer-readable storage media A
~~processor-readable medium~~—as recited in claim 6, wherein the managing the container
comprises:

adding a DV_METADATA structure to the container in response to an Add
call;

removing a DV_METADATA structure from the container in response to a
Remove call;

removing all items from the container in response to a RemoveAll call;

returning a number indicating an amount of items present in the container in
response to a GetCount call;

locking the container for exclusive access in response to a Lock call;

unlocking the container in response to an Unlock call;

retrieving an item from the container at a beginning index of the container in
response to a GetFirst call; and

retrieving an item from the container at a next index of the container in
response to a GetNext call.

8. (Currently Amended) The one or more computer-readable storage media A
~~processor-readable medium~~—as recited in claim 7, wherein the DV_METADATA
structure comprises an unpacked version of a DV metadata pack.

9. (Currently Amended) The one or more computer-readable storage media A
~~processor-readable medium~~—as recited in claim 8, wherein the DV_METADATA
structure comprises:

binary values unpacked from the DV metadata pack; and
a different variable name associated with each binary value.

10. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~—as recited in claim 2, further comprising further
processor-executable instructions configured for:

demultiplexing the DV frame to generate the video sample and an audio
sample.

11. (Canceled)

12. (Currently Amended) One or more computer-readable storage media A
~~processor-readable medium~~—comprising processor-executable instructions configured
for:

managing a DV metadata extraction list; and
extracting a DV metadata pack from a DV frame based on a DVPackID within
the extraction list.

13. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~—as recited in claim 12, further comprising further
processor-executable instructions configured for storing the DV metadata pack into an
IMFDVMetadataContainer.

14. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~—as recited in claim 13, further comprising further
processor-executable instructions configured for attaching the
IMFDVMetadataContainer to a DV sample of the DV frame.

15. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~—as recited in claim 13, further comprising further
processor-executable instructions configured for unpacking the DV metadata pack into
a DV pack-specific data structure.

16. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~—as recited in claim 15, further comprising further
processor-executable instructions configured for storing the DV pack-specific data
structure into the IMFDVMetadataContainer.

17. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~ as recited in claim 15, wherein the DV pack-specific data structure comprises:

binary values unpacked from the DV metadata pack; and
a different variable name associated with each binary value.

18. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~ as recited in claim 12, wherein the managing comprises:

adding a DVPackID to the extraction list in response to an AddPack call;
removing a DVPackID from the extraction list in response to a RemovePack call;
removing all DVPackIDs from the extraction list in response to a RemoveAllPacks call;
returning a number indicating an amount of DVPackIDs present in the extraction list in response to a GetCount call; and
returning a DVPackID at an index in the extraction list in response to a GetPackID call that specifies the index.

19. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~ as recited in claim 12, wherein the extracting comprises:

identifying the DV metadata pack in the DV frame through a header in the DV
metadata pack that contains the DVPackID; and

pulling the DV metadata pack out of the DV frame.

20. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~ as recited in claim 13, further comprising further
processor-executable instructions configured for managing the
IMFDVMetadataContainer.

21. (Currently Amended) The one or more computer-readable storage media
~~A processor-readable medium~~ as recited in claim 20, wherein the managing the
IMFDVMetadataContainer comprises:

adding a DV_METADATA structure to the IMFDVMetadataContainer in
response to an Add call;

removing a DV_METADATA structure from the IMFDVMetadataContainer in
response to a Remove call;

removing all items from the IMFDVMetadataContainer in response to a
RemoveAll call;

returning a number indicating an amount of items present in the
IMFDVMetadataContainer in response to a GetCount call;

locking the IMFDVMetadataContainer for exclusive access in response to a Lock call;

unlocking the IMFDVMetadataContainer in response to an Unlock call;

retrieving an item from the IMFDVMetadataContainer at a beginning index of the IMFDVMetadataContainer in response to a GetFirst call; and

retrieving an item from the IMFDVMetadataContainer at a next index of the IMFDVMetadataContainer in response to a GetNext call.

22. (Canceled)

23. (Original) A method comprising:

receiving an instruction to extract DV metadata from a DV data stream;

extracting the metadata from the DV data stream in response to the instruction;

storing the metadata in a container; and

attaching the container to a video sample of the DV data stream.

24. (Original) A method as recited in claim 23, further comprising managing access to the container according to method calls on a container API (application programming interface).

25. (Original) A method comprising:

managing DVPackIDs in a DV metadata extraction list based on method calls to a metadata extraction API (application programming interface); and
extracting a DV metadata pack from a DV frame based on a DVPackID within the extraction list.

26. (Original) A method as recited in claim 25, further comprising:

unpacking the DV metadata pack into a DV pack-specific data structure; and
storing the DV metadata pack and the DV pack-specific data structure in a container.

27. (Original) A method as recited in claim 26, further comprising attaching

the container to a video sample of the DV frame.

28. (Original) A method as recited in claim 27, further comprising managing

access to the container based on method calls to a container API.

29. (Canceled)

30. (Currently Amended) A computer ~~as recited in claim 29, wherein the DV metadata extraction tool comprises~~ comprising:

A DV metadata extraction tool configured to extract metadata from a DV frame and enable access to the metadata, the DV metadata extraction tool comprising:

an extraction interface configured to maintain an extraction list of DVPackIDs in response to method calls from an application and to store DV packs in a container based on the extraction list of DVPackIDs; and

a container interface configured to store a DV pack-specific data structures in the container and to manage access to DV packs and DV pack-specific data structures in response to method calls from the application; and a multimedia architecture that includes the DV metadata extraction tool.

31. (Canceled)

32. (Original) A computer comprising:

means for managing a DV metadata extraction list; and

means for extracting a DV metadata pack from a DV frame based on a DVPackID within the extraction list.

33. (Original) A computer as recited in claim 32, further comprising means for storing the DV metadata pack into an IMFDMetadataContainer.

34. (Original) A computer as recited in claim 33, further comprising means for attaching the IMFVDMetadataContainer to a DV sample of the DV frame.

35. (Original) A computer as recited in claim 33, further comprising:
means for unpacking the DV metadata pack into a DV pack-specific data structure; and

means for storing the DV pack-specific data structure into the IMFVDMetadataContainer.

36-54. (Canceled)